

Claims

What is claimed is:

1. A transition section for a forward end of
5 a threshing region of an agricultural combine, for
receiving crop material feed into the threshing region,
comprising:

a metal sheet spin formed so as to have a
smooth frusto-conical shape inner surface portion
10 extending convergingly toward the forward end of the
threshing region.

2. The transition section of claim 1 wherein
the inner surface portion is seamless.

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3. The transition section of claim 1 further
comprising an outwardly extending annular lip around a
larger forward end of the transition section.

4. The transition section of claim 1 wherein
20 the metal sheet has a thickness of at least about 4
millimeters.

5. In an agricultural combine, in
25 combination, an elongate generally cylindrical rotor
casing defining a forward threshing region, the forward
threshing region being provided with a funnel-like
transition section for endwise reception of crop
material, and a rotor disposed within said casing in
30 substantially coaxial relationship and substantially
coextensive therewith for rotation therein, an
improvement comprising the transition section being spin
formed from a metal sheet.

6. In the agricultural combine of claim 5, the improvement further comprising the transition section having a seamless frusto-conical inner surface.

5 7. In the agricultural combine of claim 6, the frusto-conical transition section including an integrally formed radially outwardly extending rim around a forward end thereof.

10 8. A transition section for a forward end of a threshing section of an agricultural combine, for receiving crop material fed into the threshing section, the transition section being formed by a process comprising a step of spin forming a single metal sheet
15 so as to have a frusto-conical shape inner surface portion.

 9. The transition section of claim 8 wherein the inner surface portion is continuous and seamless
20 circumferentially therearound.